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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/566,734	02/01/2006	Kazuhiko Yamaguchi	06054/LH	9701	
FRISHAUF, HOLTZ, GOODMAN & CHICK, PC 220 Fifth Avenue 16TH Floor NEW YORK, NY 10001-7708			EXAMINER		
			GHULAMALI, QUTBUDDIN		
			ART UNIT	PAPER NUMBER	
			2611		
			MAIL DATE	DELIVERY MODE	
		11/12/2009	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applicat	ion No.	Applicant(s)		
Office Action Summary		10/566,7	734	YAMAGUCHI, KAZUHIKO		
		Examine	r	Art Unit		
		Qutbuddi	n Ghulamali	2611		
Period fo	The MAILING DATE of this communion Reply	cation appears on th	e cover sheet with	the correspondence a	ddress	
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FO CHEVER IS LONGER, FROM THE MA Issions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commu- period for reply is specified above, the maximum state to reply within the set or extended period for reply reply received by the Office later than three months af- ad patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF T of 37 CFR 1.136(a). In no e unication. tutory period will apply and will, by statute, cause the ap	HIS COMMUNICA went, however, may a reply will expire SIX (6) MONTH plication to become ABAN	TION.  / be timely filed  S from the mailing date of this of DONED (35 U.S.C. § 133).		
Status						
2a)⊠	Responsive to communication(s) filed This action is <b>FINAL</b> . 2 Since this application is in condition followed in accordance with the practice.	b)⊡ This action is or allowance excep	t for formal matters	· ·	e merits is	
Dispositi	on of Claims					
5)□ 6)⊠ 7)⊠ 8)□ Applicati	Claim(s) 1-15 is/are pending in the apda of the above claim(s) is/are Claim(s) is/are allowed.  Claim(s) 1.8 and 15 is/are rejected.  Claim(s) 2-7 and 9-14 is/are objected.  Claim(s) are subject to restrict  on Papers	e withdrawn from co				
10)	The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any objec Replacement drawing sheet(s) including The oath or declaration is objected to	a) accepted or b tion to the drawing(s) the correction is requi	be held in abeyance red if the drawing(s)	. See 37 CFR 1.85(a). is objected to. See 37 C		
Priority u	ınder 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
2)  Notic 3) Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date 7/28/09.	ГО-948)	Paper No(s)/M	nmary (PTO-413) fail Date mal Patent Application		

Application/Control Number: 10/566,734 Page 2

Art Unit: 2611

#### **DETAILED ACTION**

1. This office action is responsive to amendment filed 7/28/2009.

## Response to Remarks/Amendment

2. Applicant's remarks with respect to amended claims 1 and 8, have been considered but are moot in view of the new ground(s) of rejection. The rejection based on new art follows.

# Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1, 8, 15 are rejected under 35 U.S.C. 102 (b) as being anticipated by Tazaki et al (USP 3,731,199).

Regarding claims 1, 8, Tazaki discloses a pulse pattern generator comprising: a pulse generating unit (figs. 1A, 1B, 3, element 1, 2) which generates a pulse signal formed in a step-like wave in which at least one of rise and fall of the pulse signal is changed in a step like manner in a predetermined bit string between first and second predetermined amplitude values (fig. 1A, 1B, 2a, 2B, RLS, MLS, Lref1 and Lref0) to provide a step at an amplitude between the first and second predetermined amplitude values (col. 3, lines 15-22, 34-49; col. 3, lines 8-20);

Application/Control Number: 10/566,734

Art Unit: 2611

a low pass filter which smoothes the pulse signal formed in the step-like wave, the pulse signal being generated by the pulse generating unit, (see above) (fig. 7, elements 34, 36; col. 7, lines 5-15); and

Page 3

an amplitude-value setting unit which adjusts an amplitude value of a step-like wave that forms the pulse signal based on the amplitude value, in order to set an eye waveform at a predetermined eye closure when an output from the low pass filter is eye-patterned, wherein the pulse signal having a desired pulse pattern with the predetermined eye closure (area defined by the waveform) set by the amplitude-value setting unit is configured as output from low pass filter (col. 3, lines 21-67; col. 4, lines1-49; col. 6, lines 16-57; col. 7, lines 3-35). Regarding claim 8, the steps claimed as apparatus is nothing more than restating the function of the specific components of the method as claimed above and therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to represent the claim in an alternate way so as to realize steps for the apparatus as claimed, considering the aforementioned rejection for the method claim 1.

## Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claim 15 rejected under 35 U.S.C. 103 (a) as being unpatentable over Tazaki et al (USP 3,731,199) in view of Ono et al (US Pub. 2007/0116474).

Art Unit: 2611

Regarding claim 15, Tazaki discloses substantially all limitations of the claim above. Tazaki does not explicitly disclose communication to a device under test (DUT) perform with at least one of electrical or optical signal. Ono discloses communication with DUT with electrical or optical signal (fig. 1; page 2, section 0033; page 3, section 0036). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to use communicating DUT with electrical or optical signal as taught by Ono in the system of Tazaki because it can allow DUT communicate with electrical or optical signals effectively in a high speed environment.

#### Allowable Subject Matter

7. Claims 2-7, 9-14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Qutbuddin Ghulamali whose telephone number is (571)-272-3014. The examiner can normally be reached on Monday-Friday, 7:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh M. Fan can be reached on (571) 272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

QG.

November 6, 2009.

Application/Control Number: 10/566,734 Page 6

Art Unit: 2611

/CHIEH M FAN/ Supervisory Patent Examiner, Art Unit 2611